MYSORE STATE

Public (1953) Department.

Ms SERIES.

G.O. NO. 697

Dated 18.3.53.

Passed
Engd
Draft

21 APR

G.O at p 34

[Despatch Abstract.]

"Community Projects - South Kanara Dt Communications - Construction of a reinforced concrete foot bridge at Megimakoppal in Puduguddy vge - Estimate - Sanctioned.

Back Papers

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

Further Papers

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
Copied		3025 RDP VI/54 dtd 19.5.54					

424

Ref.C.No.214/52-B. Office of the Project Executive Officer, South Kanara, Mangalore, Dt. 27-2-1953.

ACCOUNTS & AUDIT OFFICER, (COMMUNITY PROJECTS) 5 MAR 1953 PUBLIC (C. P.) DEPARTMENT.

From

Sri G.Simhadri, B.A.,
Project Executive Officer,
Mangalore.

To

The Director of Community Projects and Ex-Officio Secretary to Govt. Fort St.George, Madras 9.

.....

Sir,

COMMUNITY PROJECTS - South Kanara - Block I - Communications - A foot-bridge at Meginakoppal in Padukody village - Estimate - Sanction requested.

****

I submit herewith an estimate in duplicate with the necessary site plan etc. for the construction of a foot-bridge at Meginakoppal in Padukody village at a cost of Rs. 5,000/- The proposal is to put up a foot-bridge across the branch channel of the Kuloor river at the locality called Meginakoppal and marked "K" in the eye-sketch. It is about 1½ furlongs to the east of the Highway road and pedestrians from the eastern portion of Padukody and Panjimogar village have to cross the branch channel ~~to~~ at the point where the foot-bridge is proposed to be put up, to go over to Kulur and from there to Mangalore or Panambur. There is no school either in Panjimogar or anywhere in the eastern portion of Padukody. The Church Higher Elementary School in Padukody which is just by the side of the Kulur bridge in S.No. 34 is the nearest one for these children and they have to cross this channel to and fro several times every day. Hundreds of persons belonging to Padukody and the neighbouring villages and children attending the Kuloor Church Higher Elementary School from those parts will be benefited, if a foot-bridge is put up at the site proposed. The villagers are crossing the channel by means of a wooden beam put up across it. It is in a very weak condition and is washed away every year during the monsoon when they have to resort to boats for crossing the channel. The work was therefore proposed by the Firka Committee, and approved by the Project Advisory Committee. It is also included in the work programme for 1952-53. The site was inspected by the Divisional Engineer (Highways) ~~Circle~~, Assistant Project Officer and the Junior Engineer.

2. The estimate is for Rs. 5,000/- and the foot-bridge will be of 70'-0" span. The Kulur Panchayat Board has promised to contribute 25% of the cost of construction. The villagers to be benefited by the proposed work are mostly agricultural and factory labourers and persons belong to the lower income group and they belong to several villages. It is therefore not possible to collect any contributions from them individually. The Panchayat Board has already resolved to contribute 25% of the cost of construction of another foot-bridge in the same village which is proposed to be taken up at a cost of about Rs. 10,000/- The Board is therefore not in a position to give a higher contribution in respect of this work than what it has already promised. I recommend that the estimate may kindly be sanctioned for Rs. 3,750/- the remaining Rs. 1,250/- being the villagers' contribution towards the work.

PROJECT EXECUTIVE OFFICER.

Enclosure: Estimate in duplicate.

T/2712.

Pub (CP. Audit) Dept

[E. No 4241/53]

G.O. Ms. 697 dated 18-3-53.

Abstract- Community Projects - South Kanara District - Communications - Construction of a reinforced Concrete foot bridge at Heguiakoppal in Padukody Village - Estimate - Sanctioned

Read- From the PEO. Mangalore, Ref. E No. 214/52-B. dt. 27.2.53

Orders:-

Sanction is accorded to an expenditure not exceeding Rs 3750/- (Rupees Three thousand Seven hundred and fifty only) out of an estimated cost of Rs 5000 for Constructing a reinforced Concrete foot bridge at Heguiakoppal in Padukody Village. The balance ~~required~~ of Rs 1250 required to complete the work should be met from Contributions ~~to the Funds of the beneficiaries~~.

The expenditure ~~should be debited~~ to 63B Community Development Projects - I Community Projects - f. Communications ~~- foot bridges~~.

The PEO Mangalore should get the work executed according to the estimate and plan ~~but approved~~ herewith and should submit a Completion report to Government in due course.

SY
11.3.53
Sd/-
13-3-53

C
13/3/53.

19
14/3/53

29
(735)

60 dt/8/53

To
The PEO Mangalore
(with enclosures)

To AG (Madras)

Copy to Pub (CP. Accts) Dept
" Pub (CP. Tech) Dept.
" Pub. (CP. Audit).

Copy is in SF
(CB 6 marks)

Entered in CB

Fresh Current No 79688 24.4.53

24.4.53

25/4

(C no. 1211/52)

Pub (Cr. Audit) Dept.

Sub- Community Projects- South Kanara District- Communi-
-Cations; Constructing a foot-bridge at Meginakoppal in
Padukody village-

Ref- From the P.E.O. Mangalore Ref. C. No. 214/52-B dt. 27-2-53

The P.E.O Mangalore has Submitted an estimate for Rs 5000 for Constructing a footbridge at the village of Meginakoppal.

The estimate has been Scrutinized and is in order.

The Stream is about 64 wide and the proposed foot bridge will have 3 Spans of 20 ft each. The reinforced Concrete decking will be carried on R.C. piles 12" Square and Supported by R.C beams 12"x18" between ~~Spa~~ the piles. The Stream is Subject to tidal action and the selection of reinforced Concrete as the material of Construction is most Suitable.

The Soil and Subsoil are found to be Sandy, as a result of probings Conducted to a depth of about 12 ft. The P.E.O proposes to drive the R.C piles at 2 for each pier, to a depth of 12 feet from the bed of the Stream. Considering the Size of the pile and the depth of driving in the Sandy soil, a nominal safe load of 38,000 lbs can be borne by the pile as against the Calculated load of ~~about~~ 17000 lbs. Coming on each pile including its own weight. ~~The~~ Each piles will be held in position by means of horizontal beams of 6" Square section to hold it to its twin pile. The 20 feet Span will be negotiated by 2 beams of section 12"x18" which will Carry the 3" thick R.C. Slab decking and the R.C posts and hand rails. Rough Stone revetment with pointing is proposed at the land Connections

Even though the reinforced Concrete work involves Skilled labour, expert Supervision and experienced technical inspection. Skilled labour for the work is easily obtained in the area and with the availability of an assistant Engineer for the project area the problem of inspection will also be solved.

The P.E.O. reports that a Contribution of Rs 1250. from the ~~Kuku~~ Panchayat board is promised.

The estimate may therefore be sanctioned

The draft order put up may please be approved and the estimate may also be signed

Estimate kept below -

S.

11-3-53

E 13/3/53

W 14/3

17-3-53

a foot bridge over Pethkoffals Uhola at Padihar
Est Rs 5000/-

The villages of Pangumagaru & Aluvad are cut off entirely from Padihardi and Mangalore town by the Mithoppal Uhola. There is a temporary foot bridge at present which is in a very bad condition but is still used by hundred of people daily specially school children. The stream is 70'-0" wide.

As the stream is a tidal one, open foundations will be very costly due to the necessity of pulling up sand bunds, dewatering etc. Hence a pile bridge is proposed on R.C. piles 1'-0" square By means of borings done it is expected that if the piles are driven 12'-0" below bed level, stability will be obtained. Simply supported R.C. beams 12" x 18" for clear spans of 20'-0" are proposed with R.C. slab 3" thick and R.C. piles 7" x 4" x 2'-7" at 4'-0" intervals. The bottom of beam will be 14'-0" from bed level & 2'-0" above H.F.L. The total height of piles will be 26'-0" It is proposed to increase the end piles in order to allow obstruction with C.M. 1:4. mortar. Provision is also made for a flight of steps to the adjacent bund which is 7'-0" below the top of the foot bridge. Necessary launch slues provision have also been made for upkeep the R.C. piles, iron shoes for pile ends for any unforseen items such as extra

Not necessary
SV

depths of pile driving for fully superstructure charges.

Design for R.C. work is given separately as site has been inspected by the Divisional Engineer Buildings & Roads and approved by him.

7-2-53.
T.E (B.P.S.K)

Slab.

Live load 80 lbs clear span 2'-3"

Self wt of 3" Rcc slab 37½ lbs

214

251.5 lbs/sq ft

B.M. = $\frac{147.5 \times 3' \times 3' \times 12}{8}$ = 126 × 12 × d²

d² = 2.25 d = 1.5 D = 1.50 + 0.13 + 1.25

= 2.88 or 3"

Using ½" dia mesh reinforcement at centre of 1¼" since the work is subject to normal exposure

A_s = .005 × 12 × 1.5 = 0.14429"

Spacing of ½" rods $\frac{.049}{.144} \times 12$ = 4.1 or 4"

Spacing shrinkage and crossed = 2d = 2 × 1.25

or 2.5" c/c.

Distribution = 4 d = 4 × 1.25" = 5" c/c.

½" dia rods

Beam: clear span 20'

Live load 80 × 21 × 4 = 6720

Dead load of slab. 2 × 2'-9" × ¼ × 150 = 2200

Self wt of beam 2 × 22 × 15/12 × 150 = 9900

12" wide

wt of joists 2 × 6 × 5/2 × 1/3 × 150 = 900

Ends 2 × 2 × 22 × 1/4 × 1/2 × 150 = 1650

20470 lbs

wt on each beam 20470/2 = 10235

or 10300 lbs

B.M. = $\frac{10300 \times 22 \times 12}{8}$ = 126 × 12 × d²

d² = $\frac{10300 \times 22}{8 \times 126}$ d = 15.00

D = 15.00 + 0.32 + 2.00 = 17.3"

$T_s = 0.005 \times 12 \times 13.28 = 1.470''$

5/8" dia rods 3 Nos. gives an area of 1.535 sq. in. will suit. Alternate rods in the end part of the pile.

Maximum shear at end of pile $= \frac{80 \times 2.64}{8} = 220$ lbs.

Bearing power of pile 12 sq. in. with 12' driven below the ground is 38 tons lbs + hence for a load of about 10 tons lbs. + 3 tons. (Safety wt. of pile)

Rest where no lateral connection can be provided with reinforcement $\left.\begin{array}{l} 12 \times 19 \times 13.28 \times 75 \\ = 13,327 \text{ lbs} \end{array}\right\}$

Hence only nominal stirrups required using 3/8" dia rods @ $19 \times 13.28 = 13.75''$ or 1'-2" centres.

Piles. Steel tubing a square pile of 12" square. The main reinforcement is ordinarily 2 to 5 %. Hence taking a minimum of 2%

$A_s = .002 \times 12 \times 12 = 2.88$ sq. in.

8 Nos. 3/4" dia rods give 3.52 sq. in. & will suit

Nominal lateral 3/8" dia rods at 12" centres should be used. The spacing to be 6" at bottom & top for a length of 3'-0". In addition spirals binder at 4 ft. intervals to prevent distortion while driving.

Cross beam. Nominal lateral 6" c6"

4 Nos. 5/8" dia rods with stirrups at 6" 1/4" dia rods at 6" intervals

Posts. Size 12" x 4"

4 Nos. 3/8" dia rods with lateral 1/4" dia rods @ 4" intervals

Rail. Rails: Size 3" x 4" 3 Nos 3/8" dia rods. with lateral ties at 6" intervals of 1/4" rods

Lead statement 25 11

1. Broken stone : Alirebund 1 mile by boat
2. Granite rough stone : — do. 1 mile by boat
3. Sand : — do. 1 mile by boat
4. Cement : Hemgalor 5 miles ~~by~~ M. Road and 1/2 mile boat.
5. Steel : — do —

Certified that the lead adopted is correct to the best of my knowledge.

Bhagwandas
J.E. (C.P.S.K) 7/2/57

Data sheet to accompany the estimate for Causeway & four bridges over Melkhojpad Khordha to Pudamandi

Quantity.	Description of work.	Rate. Rs.	A.	P.	Per	Amount. Rs.	A.	P.	Total.
	Sub Head								
	Contents worked out @ 3%								
C.F.M.	1:2:4 for A.C. works								
96 cft	Broken stone @ 3%	4	2	0	cft	10	5	1	
45 cft	Sand	2	2	0	"	1	3	2	
24 cft	Cement	87	8	0	Cwt	34	0	0	
45 cft	Mason @ 2%	2	5	0	cft	2	2	7	
1 No.	Mason	3	2	0	each	3	2	0	
6 Nos.	Male Mazdoor		5	0	"	1	8	0	
10 Nos.	Woman Mazdoor		3	0	"	1	8	0	
96 cft	Lead for broken stone 1 mile lead		1	0	100 cft	1	3	0	
45 cft	Lead for sand as above		1	0	"		2	0	
24 cft	Lead for cement S.M.R. ½" lead	29	4	9	"		7	0	6
	Sundries						0	14	3
	Total					162	0	0	

1) R.C. concrete 1:2:4 for piles as per drawing and design will not less than 2% of main reinforcement

1 cft	concrete 1:2:4 as above	162	0	0	100 cft	1	9	11	
10 lbs	L.S. for steel bending					3	2	0	
	Lying 5 miles lbs. 0-5-0 lb.					4	0	0	
	L.S for centering					2	4	8	7/=
									4

2) R.C. concrete 1:2:4 for beams, girders only as per drawing and design will not less than 0.3% main reinforcement

1 cft	Concrete 1:2:4 as above	160	0	0	100 cft	1	9	11	1 cft
6.5 lbs	L.S. for steel bending					2	0	6	
	Lying 5 miles lbs 0-5-0					2	5	11	6-0-0
	L.S. for centering								6-0-0
						6	0	0	

P.W.D. V-39—57,603—4-4-51.

Data sheet to accompany the estimate for _____

Quantity.	Description of work.	Rate.	Per	Amount.	Total.
		RS. A. P.		RS. A. P.	
	2) R.C. concrete 1:2:4 for plain and reinforced work as per specification:				
	1 C.F.				
1 C.F.	Concrete 1:2:4.				
	in column.	160 0 0	100	1 4 11	
6 Lbs.	6-5 per mix. bending & lying yield the	0-5-0	1/4	1-14-0	
	4) Centering & shuttering for			2 4 0	
	slab & beam			1-8-11	
				1 4 5	
	Total			5 0 5	5/-
	4) Conveying & lifting all materials & water through proper means & supplying to work site including erecting derricks & towing (cost for derricks)				
	Per day.				
4 Nos.	Men Mazdoor	1 8 0 each	6 0 0.		
100.	Pole dressers				
	2 Nos.	3 0 0 "	3 0 0.		
	Coolies for pole & lowering into position				
	Total.		3 0 0		
			1200		
	Assuming total cost per cft. of concrete 25 % of cost				
	of labour per day / Rate per A/C 1200				
	4.				= 3/-
	5) Earth work in excavation for foundations				
	and plinth		100 C.ft		3 0 0
110 cft	Mazdoor	16 0 0	200 cft	1 9 7	
1 No.	Woodcutter	3 0 0	each	3 0 0.	
3 No.	Mazdoor	1 8 0	"	4 5 0.	
2 No.	Woman mazdoor	0 12 0	"	1 8 0.	
110 cft	Head for rough stone				
	1 M. Road	4 11 0	cft	5 2 6	
	Sundries			0 3 11	
	Total.			32 0 0	32/-.

Qty.	Description of works.	Rate	per	Amt.	Total.
6)	Pointing Rough stone walls with cement mortar 1:4.				
	Sub data. Cement mortar 1:4	100 cft:			
100 cft	Sand.	2-8-0	400 cft	2-8-0	
25 cft	cement	37-8-0	100 "	9-7-0	
100 cft	Lead for sand carriage	4-11-0	100 cft	4-11-0	
25 cft	Lead for cement.	27-4-9	"	7-5-2.	
100 cft	Mixing charges.	4-8-0	"	4-8-0	
	Sundries.			0-0-10	
				106-8-0	106-40
30 ft.	cement mortar 1:4	106-4-0	100		
3½ No	Masons	3-2-0	each	3-2-11	
½ No.	Mate Mazdoors.	1-8-0	"	0-12-0	
1 No.	Woman, mazdoor	0-12-0	"	0-12-0	
	Sundries			0-2-1	
	Total			9-8-0	9-8-0

Certified that the above bill is correct to the best of my knowledge.

Executive Engineer
7/2/13

District S. Kanara. Taluk

Village and Survey Padukodi Date and cost of original construction

Name and number of work County a foot bridge over Nethrapal Nadu at Padukodi Date and cost of last repairs

Details of work.	Number.	Measurement in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1) R.C. concrete 1:2:4 for piles as per departmental design with not less than 2% of main reinforcement						
Piles	2x2	1'-0"	1'-0"	26'-6"	208 cft	210 cft.
2) R.C. concrete 1:2:4 for beams (slab only) as per departmental design with not less than 0.8% main reinforcement.						
Beams	2	64'-0"	1'-0"	1'-6"	192	
Cross beams	4	2'-8"	0'-6"	0'-6"	2.67	
Total					194.67	195 cft
3) R.C. concrete 1:2:4 for slab and hand rails as per departmental design						
R.C. slab	1	64'-0"	4'-8"	0'-3"	74.63	74.63
R.C. posts	2x7x2'-7"				8.30	9.80
R.C. rails	4x64'	0'-3"	0'-4"	0'-6"	16.67	32.00
					99.60	116.43
4) Excavating, fixing in position & shoring R.C. piles in all soils except rock up to refusal						117 cft
End piles	2x4x	19'-10"			144	
Middle piles	2x4x	12'-0"			96	
Total					240	240 cft.
5) Bought-out steel bolts etc. complete.					L.S.	
6) Providing & fixing iron shoes (as shown in plan) for R.C. pile					L.S.	

C.F. 160 (1)

Details of work.	Number.	Measurement in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
7) Rough stone dry packing for revetment of slope						
Slope	1	4'-8"	5' 3"	7'-6"	368.	
Revetment faces	2	4' 5"	1'-6"	14'-6"	203.	
Quadrangle	2 x 2	33/7 x 7/4	x 1'-6"	14'-6"/2	279.	
Straight portion	2 x 2	5' 0"	1'-6"	8'-0"	240.	
Toe on face	2	14'-8"	2' 0"	2'-0"	38/16	
Quadrangle	2	33/7 x 1/4	2'-0"	2'-0"	88/132	
Total					1235	1250 cft
8) Pointing stone pitching with cement mortar 1:4						
Top of slope	2 x 13 x 4		8"	0' 9"	91.	
Wall sides	2 x 14 x 2		1'-5"	0'-6"	65	
Revetment faces	2	4' 5"	14'-6"		130	
-do- quadrangle	2 x 2	33/7 x	7/4 x	14'-6"/2	160	
Straight portion	2 x 2	5' 0"	2'-0"	-	160	
					711	or 700 sft
9) Temporary stone work as detailed in plan of ground water masonry						Lump sum
10) Petty refurbishing charges						Lump sum

Estimate prepared
7/C (Civil)

Checked
7/2/53.

ESTIMATE ABSTRACT OF ESTIMATE.

Estimate No.....

District.....S. Kanara.

Board.....

Sub-head.....

Name of Work.....Constructing a foot bridge across Kallayi flood channel at Pachikad &c

Hoe & Co., Madras.

Quantity.	Description of Work.	Item number of the Schedule of Rates.	Rate. Rs. A. P.	Per	Amount. Rs. A. P.	Total. Rs. A. P.
210 cft	1) R.C. concrete 1:2:4 for piles as per departmental design with not less than 2% of m.s. reinforcement.		7 0 0	cft	1470	
195 cft	2) R.C. concrete 1:2:4 for abut. beams (rib only) as per departmental design with not less than 0.5% m.s. reinforcement		6 0 0	cft	1170	
117 cft	3) R.C. concrete 1:2:4 grade and bracket reels as per departmental design		5 0 0	cft	585	
240 sft	4) Conveying, fixing in position & driving 12" sq. R.C. piles in all soils except rock if to be required.		L.S.		720	
	5) Splicing R.C. piles with necessary bolts etc. complete. L.S.				80	
	6) Providing & fixing iron shoes (as shown in plan) for R.C. piles L.S.				80 0 0	
1250 cft	7) Rough stone dry packing for revetment & wings		3 2 0	100 cft	400	
700 sft	8) Pointing rough stone masonry with C.M. 1:4		9 0 0	100 sft	67	
	9) Unforeseen items such as extra depth of piles if found necessary L.S.				200 - -	
	Petty repairs & Charges & Contingencies at about 5%.				228 - -	
	Carried over ..				5000 0 0	5000/-

ESTIMATE *contd.*

Quantity.	Description of Work.	Item number of the Schedule of Rates.	Rate. Rs.	A.	P.	Per	Amount. Rs.	A.	P.	Total. Rs.	A.	P.
	Brought forward ..											

Technically Sanctioned
S Balakrishnan
Supervisor C.P. 11-3-53

Amount of estimate Rs 5000/-
Amount of Contribution Rs 1250/-
Amount of Sanction Rs 3750

Sanctioned for Rs 3750/-
(Rupees Three thousand
Rupees Three Thousand Seven hundred and fifty only)

D. E. P.

13-3-53 11-3-53

13/3/53.

Dated.....19 .

Overseer,.....*Taluk.*

Countersigned.	Checked and found correct.	Approved.
Sub-Divisional Officer, if any.	*Draftsman.*	*L. F. Engineer.*
Dated.....19 .	*Dated*.....19 .	*Dated*.....19 .

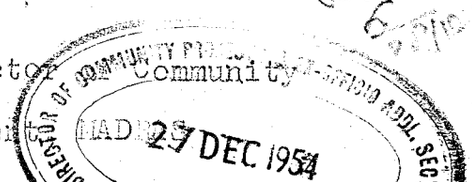
Number and date of resolution of the Board.....

L.Dis.5616/54.

Project Executive Office, S.K.,
Mangalore, Dated 22--12--1954.

From
Sri. H. Narasimha,
Project Executive Officer,
South Kanara, MANGALORE.

To
The Director of Community
Development, MADRAS.

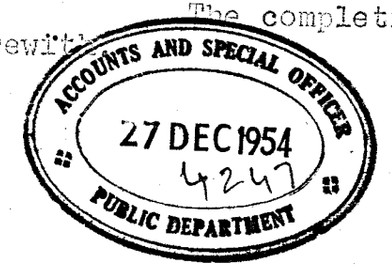


Sir,

COMMUNITY PROJECT--South Kanara--Communications--Construction of a reinforced concrete foot bridge at Megginakoppal in Padukody village--Completion Report--Resubmitted.
Ref: Govt. Memorandum No.8213 Public RDP. VIII/54-2, Dt. 16-9-54.

The defects pointed out in the Government Memorandum have since been attended to by the Assistant Engineer (C.P.) Mangalore Vide letter No.Ref.1441/E/54, Dated 13--12--1954. (Copy enclosed)

The completion report and the plan are resubmitted herewith.



Yours faithfully,

Project Executive Officer.

Encl: 1 C.R. & Plan & data.
1 copy of A.E's letter.

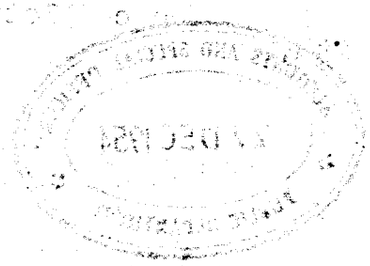
JC/23-12-54.

Pub (RDP VII)

pp. 1-14. Submitted for perusal. In view of what has been stated on pp 1-3. as achin seems necessary. The papers may be lodged and added to G.O. at (M) ✓

6.1.55

3.1.55



Copy of letter No.Ref. 1441/E/54, Dated 13--12--1954 submitted by the Asst. Engineer, Mangalore to the Project Executive Officer.

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The date of final tx transaction of the above work is on 5-3-1954.

The data for the rate of Rs. 6-8-0/R.Ft. was furnished in the 1st supplemental agreement submitted on 5-9-53 itself and a copy of the same is herewith enclosed as desired by you.

The above rate of Rs. 6-8-0 per R.Ft. does not include any hire charges, since the original estimate does not contemplate the same. Only the actual working charges for conveying the piles from its place of carrying and fixing the same in pxx position in the bed of the stream and driving the piles of 12" square is provided to the beneficiary in the above agreement. The pile driving set consists of 1 No. of monkey weight weighing nearly 743 lbs 1 No. of single stream pully and one manilla rope of 100 ft. in length etc. have been conveyed to the work site by the beneficiary from the Community Project stores at his cost, whih as per rule he will have to do, but in addition to this he has arranged at the work site on no cost basis, the derrick posts 3 Nos for the working of the Monkey and only the actual cost for driving the Monkey has been worked out fxx and provided in the above agreement. In the estimate there is a clear savings of Rs.185-13-0 from the sanctioned amount of the estimate i.e. amount of contribution by the Community Project funds Rs. 3750/- and actual amount paid to the beneficiary is Rs. 3564-3-0 (3750 minus 3564-3-0 : 185-13-0) and hence separate hire charges xxx has not been fixed. The firm bill received from the beneficiary was submitted on 29-10-1953.

This has since been shown in red ink in the Completion plan. The necessity for providing such a rich mix of Concrete is due to the place being subjected to xx tidal action as the Concerete is to be placed in salt water and hence a rich mix was necessitated.

The bank connection has since been shown in red ink in the Completion plan. This item of work and also the item of the Concrete work in the previous para has since been shown in the item of unforseen works of the estimate as desired.

The Completion report after attending to the alterations in the plan is resubmitted.

(SD) A.N.RAMAKRISHNAN
SUPERVISOR, MANGALORE.

Ref. 1441/E/54.

Copy submitted to the Project Executive Officer with reference to memorandum No.8213 Public R.D.P.VIII/54-2, Dated 16-9-1954.

The discrepancies as pointed out in the memorandum are attended to and herewith submitted for favour of necessary action.

(SD) K.KRISHNA NAIR
ASST. ENGINEER, MANGALORE.

/True Copy/-

Project Executive Officer.

JC/24-12-54.

I	Re-inforced cement Concrete 1:2:4 for piles as per the departmental design with not less than 2% of main re-inforcement of 12" Square piles (vide as per P. 31 of HBK 12 dt. 17 2/54)	210 cft.	7	0	0	1470-0-0	208·2 cft.	7	0	0	1457-6-0	1·8 cft.	7	0	0	12	10	0	Found sufficient the execution of w
II	Re-inforced cement Concrete 1:2:4 for beams (Slab only) as per the departmental design with not less than 0·8% of main re-inforcement (vide P. 31 of HBK 12 dt. 17-2-54)	195 cft.	6	0	0	1170	0	0	194·67 cft.	6	0	0	1168	0	0	0·33 cft.	6	0	0	2	0	0	—do—
III	Re-inforced Cement 1:2:4 Slab & hand rails as per the departmental design (vide P. 32 of HBK 12 dt. 17-2-54)	117 cft.	5	0	0	585	0	0	107·93 cft.	5	0	0	539	-10	-0	9·07 cft.	5	0	0	45	-6	-0	—do—
IV	Conveying & fixing in position & driving 12" Sq. R.C. piles in all soils except rock up to refusal (vide P. 31 of HBK 12 dt. 17-2-54)	L.S.				720-0-0	120-6" Rft.	6	8	0	783	4-0	120-6" Rft.	6	8	0	63	4	0	Found essential during the Remainder execution of work.
V	Splicing Re-inforced Concrete piles with necessary bolts etc. Complete (vide P. 32 of HBK 12 dt. 17/2/54)	L.S.				80	0	0	1·8 cft.	3	8	0	63	0	0	1·8 cft.	3	8	0	17	0	0	Found sufficient during the execution of work.
VI	Providing & fixing iron shoes as shown in plan for R.C. piles (vide P. 32 of HBK 12 dt. 17-2-54)	L.S.				80	0	0	8 Nos	10	0	0	80	0	0	—	—	—	—	—	—	—	Form Bill was submitted by P.E.O with the Supplementary A/c itself.
VII	Rough stone dry packing for revetment & steps (vide as per P. 33 of HBK 12 dt. 17-2-54)	1250 cft.	32	0	0	400-0-0	1234 cft.	32	0	0	394-14-0	16 cft.	32	0	0	5	2	0	—do—
VIII	Pointing Rough Stone masonry with C.M 1:4 (Vide P. 33 of HBK 12 dt. 17-2-54)	700 Sqft.	9	8	0	67	0	0	709 Sqft.	9	8	0	67	6	0	9 Sqft.	9	8	0	0	-6	-0	Found essential during the execution of work
IX	Cement Concrete 1:2:4 in hard broken Stone 3/4" Gauge for filling bet piles on banks only (vide P. 31 of HBK 12 dt. 17-2-54)	45 cft.	146	0	0	65	11	0	45 cft.	146	0	0	65	-18	-0	This amount was saved from the provision of unforseen works in the estimate							—do—
X	Earth work excavation complying with Standard Specification No 20B in hard gravelly Soil within initial lead & lift for filling the embankment (vide P. 32 of HBK 12 dt. 17/2/54)	6224 cft.	21	6	0	133	1	0	6224 cft.	21	6	0	133	-1	-0	This amount was saved from the Provision unforseen works in the estimate.							—do—
XI	unforseen items such as extra depth of piles if found necessary (vide as per the original estimate)	L.S.				200	0	0	—	—	—	—	—	—	—	—	—	—	—	200	0	0	Found not essential hence used without for other unforseen item figure alone
XII	Petty Supervision charges & Contingencies (vide as per the original estimate)	L.S.				228	0	0	—	—	—	—	—	—	—	—	—	—	—	228	0	0	Found not essential & hence not used up
	Total					5000-0-0							4772-4-0							5-10-2-0			
													5000-0-0							262-6-0			
													4772-4-0							247-12-0			
	C-O												247-12-0										

8/53 2/54 i.e. (5-3-1954)

Community Project DEPARTMENT. Sarla-Kanara, Mangalore. C.F. 296.

Work:- "Construction of a foot-bridge over Hegnekoppal thodu in Padukodi Village as Sanctioned in G.O.M's No. 697 Public & C.P Dept dt. 18/3/53. Completion Report. Est. Amount Rs 5000/- Amount of Contribution Rs 1250/- Amount of Sanction Rs 3750/

Date of commencement. (2)	Date of Completion. (3)	Date of Passing by the (4)	Particulars. (5)	As estimated. Quantity. (6)	As estimated. Rate. (7)	As estimated. Amount. (8)	As executed. Quantity. (9)	As executed. Rate. (10)	As executed. Amount. (11)	Difference (excess to be shown in red ink). Quantity. (12)	Difference (excess to be shown in red ink). Rate. (13)	Difference (excess to be shown in red ink). Amount. (14)	Explanation for the difference. (15)
					Rs. A. P.	Rs. A. P.		Rs. A. P.	Rs. A. P.		Rs. A. P.	Rs. A. P.	
8/53.	3/54.		B.F	—	— —	5000 0 0	—	— —	4752 4 0	—	— —	247 12 0	

8 - 6 - 1954.

Amount actually paid by Govt. Total ... 4752 4 0
Value of contribution by beneficiaries ... Total Amount as per estimate 5000 0 0 — 3584-3 —
Amount paid ... 4752 4 0 — 1188-1 —
Amount of 15 per cent deductions withheld ... 237 12 0 — Savings in the estimate.

A.R. Ramachandra
Sub Asst. C.P.Sec. 1/6/54
Designation.

Certified that I have examined the work from time to time whilst in progress and that it has been executed in a substantial and satisfactory manner as regards materials and workmanship and that it corresponds with the exemption noted above with the sanctioned plan and estimate.

K. Nagabhushana Dead 16/6/54

E. A. Compton 21/6/54

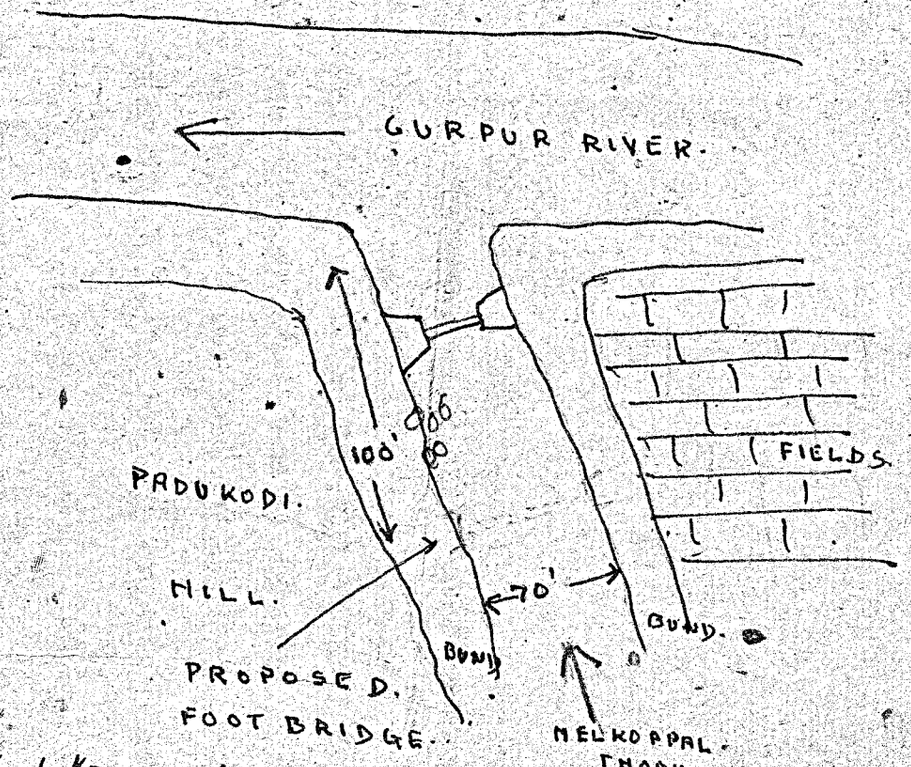
H. Veeranna 16/6/54

Designation. Project Executive Officer

N.

SITE PLAN
SHOWN G.29

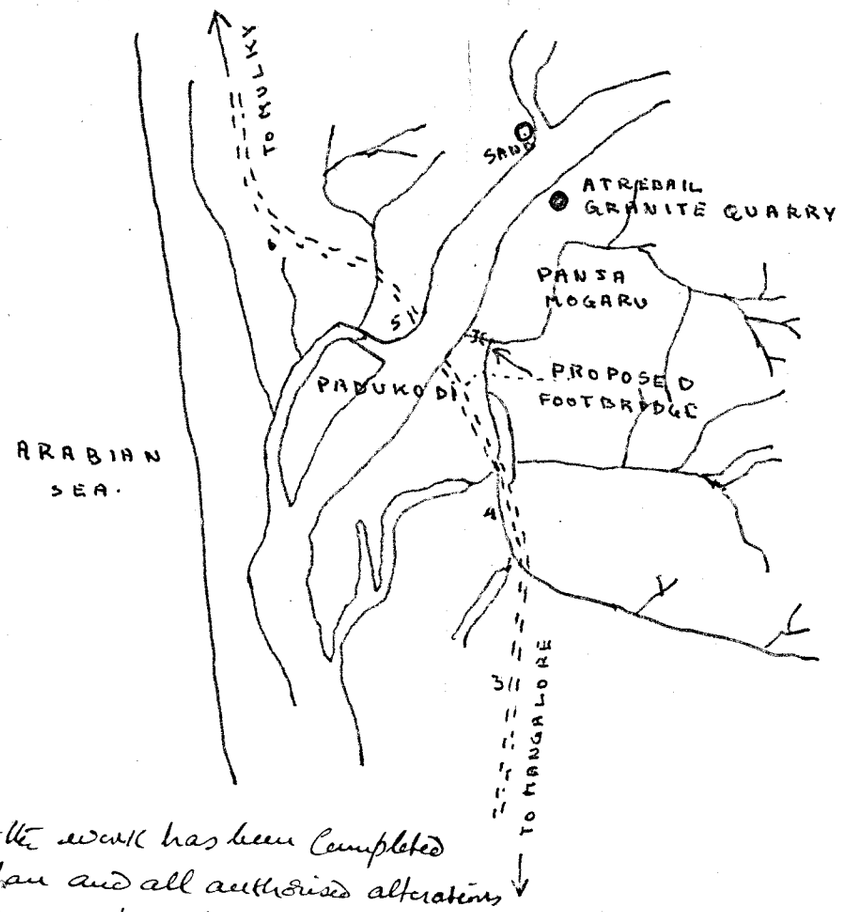
PROPOSED FOOT
BRIDGE
(NOT TO SCALE)



Certified that the work has been completed as per this plan and ~~not~~ authorised alterations & deviations if any has been shown in red ink

A.T.R. Ramakrishnan
Supdg. Engineer
C.P.W.S.
18/8/54

CHART SHOWING LOCATION OF QUARRY ETC



Certified that the work has been completed as per this plan and all authorised alterations & deviations if any has been shown in red ink.

A.T.R. Ramakrishna
Exp Engineer
Capt SA
18/3/52

B. Bhagwandas
11-12-52
7/2/53
J.C. (E.P.S.K)

FOOT BRIDGE OVER MELPOTTAI THODU AT PADUKODI

1/33

SCALE 1/4"

PLAN AT BOTTOM

PLAN AT TOP

4'-0"

REFERENCE
TOTAL LENGTH 64'-0"
CLEAR SPAN 4'-0"
NO OF R.C. PILES 2X4
SPAN OF R.C. BEAM 20'-0"

64'-0"

R.C. PILES 3'-0" SQ

R.C. BEARING

R.C. PILE 1'-0" SQ

R.C. CAP 3" THICK

45.52

43.00

36.52

36.20

36.83

26.0

1'6"

1/4:1 SLOPE

92.63

FIELDS

EARTHWORK FOR FORMING CONNECTING BANK

ROUGH STONE DRY PACKING WITH POINTING IN C.M. 1:3

CEMENT CONCRETE 1:2:4 FOR FILLING BETWEEN PILES.

2'-0" 20' 20' 1'-0"

HALF SECTIONAL ELEVATION

SOIL PARTICULARS PROBINGS

40" SLUSH & FINE SAND

CROSS SECTION
SCALE 1/2"

1'-0" 6" 1'-0" 2'-7"

4'-0"

3" THIC

1/4" DIA RAIN RODS @ 2½" CRS

CONCRETE DISTANCE PIECES 1/4" DIA RODS @ 6" CRS

1'-0" 2'-8" 1'-0"

COVER FOR RAIN RODS 2"

4 NOS 5/8" DIA RODS

1/4" DIA RINGS @ 6" CRS

R.C. CROSS BEAM 1'-6"

1'-6" 2'-8"

3'-8"

4" DIA RINGS @ 4" CRS

NOS 3/8" DIA RODS

COVER FOR RAIN RODS 1"

3" THIC

15"

2'-0"

SECTION OF PILE
SCALE 1/2"

IRON SHOE

COVER FOR MAIN RODS 2"

MAIN RODS 3/4" DIA BARS

3/8" DIA CROSS LINKS @ 1' CRS

LATERALS 3/8" DIA RODS @ 12" CRS

4 NOS CRS AT BOTTOM

Certified that the work has been Completed as per this plan and all authorised alterations & deviations if any has been shown in

A.E.E.

Data sheet to accompany the estimate for "Constructing a foot-bridge over Hegne Koppal thodu in Padukodi as sanctioned in G.O. M's No. 697 Public. C.P. Dept. dt. 18-3-53.

Quantity.	Description of work.	Rate. Rs.	A.	P.	Per.	Amount. Rs.	A.	P.	Total.
I	Cement Concrete 1:2:4 in hard broken stone 3/4" Gauge :— wo eft								
	x x x x x x x x								
	x x x x x x x x								
	x x x x x x x x x								
II	Conveyance, fixing in position & driving 12" Square R.C. piles in all soils except rock up to Refusal per day as actually observed during the execution of work:—								
	1st 10'-0" of driving								
13 Nos	of Hon Hand Hammer for lifting 743 lbs of Monkey weight & hammering the piles — — — —	1	8	0	each	19	8	0	
2 Nos	of pile drivers for driving the pile for keeping it erect while driving — — — —	3	0	0	each	6	0	0	
L.S.	For unforseen items such as Coir Rope, straightening the piles by providing struts etc	—	—	—		0	8	0	
	Total — —					26	0	0	
	Average depth driven per day is 3'-0" to 4'-0" as the Soil being very hard. ∴ per ~~day~~ Rft :—				26-0-0 / 4 =	6	8	0	or say Rs 6/8/0 Rft.
III	Earth work excavation complying with standard Specification No 2013.								

P.W.D. V.—89—1,06,560—20-3-33.

Data sheet to accompany the estimate for_____

Quantity.	Description of work.	Rate.	Per.	Amount.	Total.
		RS. A P.		RS. A. P.	
	ea hard gravelly soil, within initial lead & lift as per S.I. 15-B.				
	x x x x x x x x x				
	x x x x x x x x x				
	x x x x x x x x				

Certified that the lead & other information furnished are correct to the best of my knowledge.

(Sd) A. H. Ramakrishnan
Supervisor Hayalur
C.P. Sec
5/9/32.

(Sd) U. A. Gafoor
Assistant Engineer
C.P. Sec.
23/9/32

(True Copy)

A.H.R
Ramakrishnan
Supervisor Hayalur
C.P. Sec.
22/11/32